TRANSPORTATION RESEARCH

List of Contents and Author Index

Volume 26A, 1992

PERGAMON PRESS
NEW YORK · OXFORD · SEOUL · TOKYO

Transportation Research

an international journal **Part A: Policy and Practice**

Editor-in-Chief

FRANK A. HAIGHT

Institute of Transportation Studies, University of California, Irvine, CA 92717, U.S.A.

Associate Editors

EDWARD K. MORLOK

Systems Department, University of Pennsylvania, Philadelphia, PA 19104-6315, U.S.A.

ADIB KANAFANI

Institute of Transportation Studies, University of California, Berkeley, CA 94720, U.S.A.

PAUL BARON

Fachgebiet Verkehrswesen und Verkehrsplanung, Universitat Dortmund, Postfach 500 500, 4600 Dortmund 50, Germany

KENNETH J. BUTTON

Department of Economics, Loughborough University, Loughborough, Leicestershire LE11, 3TU, United Kingdom

---

Book Review Editor: LYN LONG

Institute of Transportation Studies, University of California, Irvine, CA 92717, U.S.A.

Editorial Advisory Board

W. BRUCE ALLEN, Philadelphia, PA, U.S.A.
DENNIS E. BLUMENFELD, Warren, MI, U.S.A.
DAVID E. BOYCE, Urbana, IL, U.S.A.
JAMES A. DUNN, JR., Camden, NJ, U.S.A.
GORDON J. FIELDING, Irvine, CA, U.S.A.
DAVID FORKENBROCK, Iowa City, IA, U.S.A.
WILLIAM L. GARRISON, Berkeley, CA, U.S.A.
GENEVIEVE GIULIANO, Los Angeles, CA, U.S.A.
DAVID L. GREENE, Oak Ridge, TN, U.S.A.
DAVID A. HENSHER, Sydney, N.S.W., Australia
LESTER A. HOEL, Charlottesville, VA, U.S.A.
ALAN J. HOROWITZ, Milwaukee, WI, U.S.A.
BRUCE G. HUTCHINSON, Waterloo, Canada
YASUNORI IIDA, Kyoto, Japan
PETER M. JONES, London, U.K.
HARTMUT KELLER, Munich, Germany
RYUICHI KITAMURA, Davis, CA, U.S.A.
DAMIAN J. KULASH, Washington, DC, U.S.A.
MAX LAY, Melbourne, Australia
MARTIN LEE-GOSSELIN, Quebec, Canada
THOMAS R. LEINBACH, Lexington, KY, U.S.A.
ANTHONY MAY, Leeds, U.K.
PANOS G. MICHALOPOULOS, Minneapolis, MN, U.S.A.
NANCY NIHAN, Seattle, WA, U.S.A.
KENNETH OGDEN, Clayton, Vic., Australia
ERIC I. PAS, Durham, NC, U.S.A.
TOM RALLIS, Lyngby, Denmark
STEPHEN RITCHIE, Irvine, CA, U.S.A.
FRANCESC ROBUSTÉ, Barcelona, Spain
WERNER ROTHENGATTER, Karlsruhe, Germany
ILAN SALOMON, Jerusalem, Israel
DANIEL SPERLING, Davis, CA, U.S.A.
PHILIP A. VITON, Columbus, OH, U.S.A.

Publishing, Subscription, and Advertising Offices: Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A., INTERNET "PPI@PERGAMON.COM"; and Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BW, England.

Published Bi-Monthly. Annual institutional subscription rate (1992): £215.00 (US$390.00). *Two-year institutional rate* (1992/93): £408.50 (US$741.00). *Personal subscription rate* for those whose library subscribes at the regular rate (1992): £62.00 (US$99.00). Sterling prices are definitive. US dollar prices are quoted for convenience only, and are subject to exchange rate fluctuation. Prices include postage and insurance and are subject to change without notice. Notify 8 weeks in advance of address change with a copy of the subscription label. Back issues of all previously published volumes, in both hard copy and on microform, are available direct from Pergamon Press. Subscription rates for Japan are available on request.

Cover design by Edward Ruscha

PERGAMON PRESS

HEADINGTON HILL HALL, OXFORD OX3 0BW, ENGLAND
660 WHITE PLAINS ROAD, TARRYTOWN, NY 10591-5153, U.S.A.

LIST OF CONTENTS

Volume 26A, No. 1, January 1992

SPECIAL ISSUE

AIRPORT LANDSIDE PLANNING AND OPERATIONS

S. C. Wirasinghe and **J. P. Braaksma**	1	Editorial
Vojin Tošoić	3	A review of airport passenger terminal operations analysis and modelling
Amedeo R. Odoni and **Richard de Neufville**	27	Passenger terminal design
Andrew C. Lemer	37	Measuring performance of airport passenger terminals
Salah G. Hamzawi	47	Lack of airport capacity: Exploration of alternative solutions
S. Bandara and **S. C. Wirasinghe**	59	Walking distance minimization for airport terminal configurations
Francesc Robusté and **Carlos F. Daganzo**	75	Analysis of baggage sorting schemes for containerized aircraft
	93	Recent Doctoral Dissertations Air Transportation Environmental Impacts Freight and Logistics Maritime Transportation Pedestrians Pricing Project Management Public Transportation Rail Transportation Traffic Analysis Traffic Assignment and Trip Distribution Transportation/Land Use Interaction Transportation Networks Travel Behavior
	I	Forthcoming Papers

Volume 26A, No. 2, March 1992

SPECIAL ISSUE

TRANSPORTATION POLICY IN EUROPE

Joseph Berechman	129	Foreword
Peter Jones and **Arild Hervik**	133	Restraining car traffic in European cities: An emerging role for road pricing
Veli Himanen, **Peter Nijkamp** and **Juraj Padjen**	147	Environmental quality and transport policy in Europe
Sean D. Barrett	159	Barriers to contestability in the deregulated European aviation market
David Banister **Joseph Berechman** and **Gines de Rus**	167	Competitive regimes within the European bus industry: Theory and practice
Bjørn Andersen	179	Factors affecting European privatization and deregulation policies in local public transport: The evidence from Scandinavia
Rico Maggi	193	Swiss transport policy for Europe? Federalism and the dominance of local issues
Uffe Jacobsen and **Jörgen Kristiansen**	199	Transport networks for peripheral regions
Ulrich Blum **Haluk Gercek** and **José Viegas**	211	High-speed railway and the European peripheries: Opportunities and challenges
	I	Forthcoming Papers

Volume 26A, No. 3, May 1992

Xuehao Chu, **Gordon J. Fielding** and **Bruce W. Lamar**	223	Measuring transit performance using data envelopment analysis
Shu S. Liao, **Thomas P. Moore** and **Andrew G. Mackel**	231	A transportation and logistic support model for aircraft aboard Navy carriers

Michael A. P. Taylor, William Young, Marcus R. Wigan and **Kenneth W. Ogden** 247 Designing a large-scale travel demand survey: New challenges and new opportunities

J. R. Kenworthy, P. W. G. Newman and **T. J. Lyons** 263 The ecology of urban driving I—Methodology

P. W. G. Newman, J. R. Kenworthy and **T. J. Lyons** 273 The ecology of urban driving II—Driving cycles across a city: Their validation and implications

I Forthcoming Papers

Volume 26A, No. 4, July 1992

Sharon Cullinane 291 Attitudes towards the car in the U.K.: Some implications for policies on congestion and the environment

Michael G. H. Bell 303 Future directions in traffic signal control

Athanasios Matzoros and **Dirck Van Vliet** 315 A model of air pollution from road traffic, based on the characteristics of interrupted flow and junction control: Part I—Model description

Athanasios Matzoros and **Dirck Van Vliet** 331 A model of air pollution from road traffic, based on the characteristics of interrupted flow and junction control: Part II—Model results

357 Thanks to Reviewers

I Forthcoming Papers

Volume 26A, No. 5, September 1992

Alexander R. Gassaway 361 The adequacy of walkways for pedestrian movement along public roadways in the suburbs of an American city

Panos D. Prevedouros 381 Associations of personality characteristics with transport behavior and residence location decisions

Erik Ferguson 393 Transit ridership, incident effects and public policy

Chris Caplice and **Hani S. Mahmassani** 409 Aspects of commuting behavior: Preferred arrival time, use of information and switching propensity

Miles H. Sonstegaard 419 Balance and coordination for road and rail

I Forthcoming Papers

Volume 26A, No. 6, November 1992

SPECIAL ISSUE

PRODUCTIVITY AND PERFORMANCE

	iii	Notice
David A. Hensher	433	Editorial
Robert J. Windle and **Martin E. Dresner**	435	Partial productivity measures and total factor productivity in the air transport industry: Limitations and uses
Kofi Obeng, **Nasir Assar** and **Julian Benjamin**	447	Total factor productivity in transit systems: 1983–1988
Carl D. Martland	457	Rail freight service productivity from the manager's perspective
Martin Putterill and **Kambiz Maani**	471	Development in performance monitoring systems for roading at the local authority level
Gordon J. Fielding	483	Transit performance evaluation in the U.S.A.
Tae H. Oum, **Michael W. Tretheway** and **W. G. Waters, II**	493	Concepts, methods and purposes of productivity measurement in transportation
	I	Forthcoming Papers
	VII	Volume 26 Contents and Author Index